

## Master Syllabus

### BIO 1242 - Principles of Anatomy & Physiology II

**Division:** Science, Mathematics and Engineering

**Department:** Biology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 2.0

**Prerequisite(s):** BIO 1141

**Date Revised:** June 2014

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#### Course Description:

The second course in a two-semester sequence studying the structure and function of the human body. Topics include the cardiovascular system, the respiratory system, the digestive system, metabolism, the urinary system, fluid and electrolyte balance, acid-base balance and the reproductive system. Three classroom, two lab hours per week.

#### General Education Outcomes:

- ❑ Oral Communication Competency
- ❑ Written Communication Competency
- ❑ Critical Thinking/Problem Solving Competency
- ❑ Computer Literacy Competency
- ❑ Information Literacy Competency

#### Course Outcomes:

##### Anatomical Competence

Use formal anatomical terminology in describing the tissues and organs of the organ-system; identify and locate tissues and organs on diagrams, photos, models, tissue slides, and dissected specimens; relate anatomical structure to physiological function.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of the available points in the course (Lecture exams, Quizzes, and Lab Tests)

##### Homeostatic mechanisms and organ systems interdependence

Describe the physiological processes that each organ system contributes to body homeostasis and describe the interdependence of the organ systems of the body.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of the available points in the course (Lecture exams, Quizzes, and Lab Tests)

##### Physiological Competence

Use correct scientific terminology in describing the physiological processes central to each organ system. Describe the mechanisms, biochemical pathways, and control systems for the principle physiological processes, and relate physiological function to the anatomical structure of the organ systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of the available points in the course (Lecture exams, Quizzes, and Lab Tests)

#### Outline:

Blood  
The heart  
Blood vessels  
The lymphatic system  
The respiratory system  
The digestive system  
Metabolism  
The urinary system  
Fluid, electrolyte, and acid-base balance  
The reproductive system